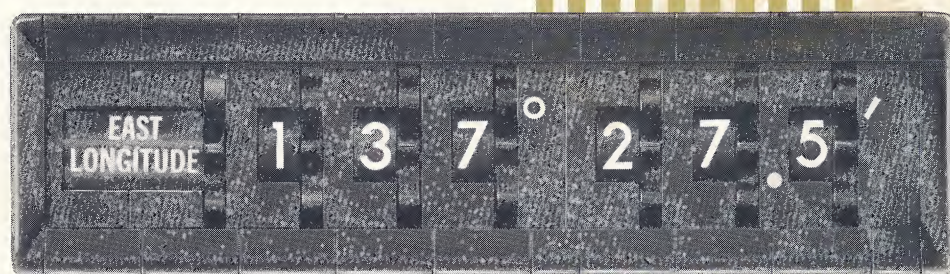


DIGISWITCH®



DIGISWITCH CONVERTS DIRECT FROM DIAL
SETTING TO CODED ELECTRICAL OUTPUTS

0 1 2 3 4 5 6 7 8 9

1 2 4 8





GENERAL CHARACTERISTICS

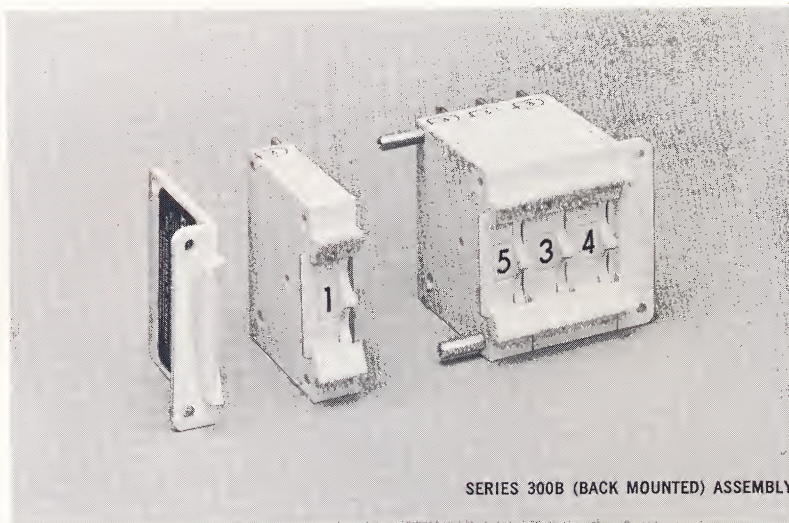
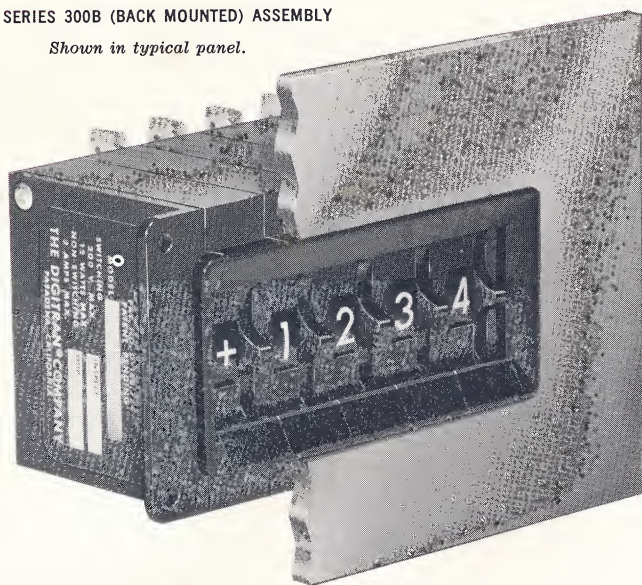
The versatile DIGISWITCH line is available in four series, covering a wide range of electrical capabilities. DIGISWITCH is the ideal switch where accurate manual setting, visual readout and coded electrical outputs are required. All are compact, multiple-position, finger-actuated switches with bi-directional setting wheels that provide unusual versatility in functional applications as well as substantial savings in front panel space. Digiswitch converts directly from digital dial setting to coded electrical outputs or provides "straight" decimal selection in either single or multiple-pole. Computers, test equipment, servo systems, automation systems and control systems represent typical applications.

EASY MOUNTING

Modular construction of DIGISWITCH permits the ganging of any combination of individual switch types of the same series into a single unitized assembly. Separate escutcheon plates, secondary brackets and other special fixtures are not required to mount a DIGISWITCH assembly—only four screws. The clean, uncluttered design of DIGISWITCH fits all panel configurations and **saves considerable panel space.**

SERIES 300B (BACK MOUNTED) ASSEMBLY

Shown in typical panel.



SERIES 300B (BACK MOUNTED) ASSEMBLY

HUMAN ENGINEERING

DIGISWITCH modules reflect today's most advanced human engineering techniques. The unique design of the finger detent in the setting wheel assures easy, yet positive, setting action, maximum reliability, accuracy and long life. DIGISWITCH is also designed to provide an **in-line visual readout** of the switch settings regardless of the number of modules in an assembly. The DIGISWITCH assembly is a total display and is easily read as a complete message, or function, with no visual interruption between switch modules. This remarkably uncomplicated in-line readout feature greatly promotes accuracy and operator efficiency. Large white numbers permanently set in a black background contribute further to the clarity of the visual display.

FUNCTIONAL VERSATILITY

Within the four different DIGISWITCH series, there are available, as standard types, switches ranging from two positions to forty-two positions and providing over 80 electrical output configurations. The system-oriented design of DIGISWITCH also includes provision for the installation of diodes, resistors or other components directly on the switch circuit board. Circuit board terminals allow the use of both standard edge connectors or soldered wire connections.

CONSTRUCTION MATERIALS

DIGISWITCH features these extra-quality materials: • Injection-molded LEXAN polycarbonate resin plastic parts • Epoxy fiberglass printed circuit boards manufactured in accordance with MIL-P-13949 • Nickel-gold plated circuits • Precious metal alloy contacts (Paliney No. 7, Leach and Garner No. 226H, or equivalent) • Beryllium copper brush base and detent spring • Irradiated plated aluminum and cadmium-plated steel hardware.

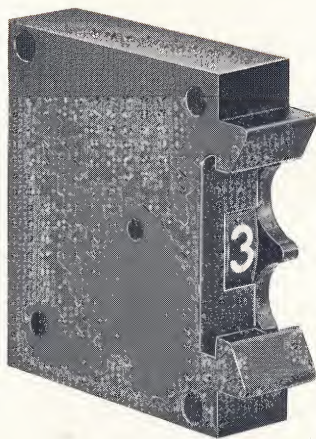
DIGISWITCH is manufactured under U.S. Patents 3,089,923 and D188,724. Other Patents Pending.

SPECIFICATIONS

Voltage.....	200 volts
Contact current rating.....	No break: 3 amperes Switching: 12 watts, non-inductive
Insulation resistance.....	1000 megohms
Contact resistance.....	0.1 ohm maximum
Operating temperature.....	-40°C to 100°C
Operating force.....	8 to 10 ounces
Life.....	Over 1,000,000 detent operations
Dielectric strength.....	1250 volts ac
Vibration-operating.....	up to 10G (0.06 DA from 10-55 cps)
Shock.....	50G at 11 milliseconds

THE SERIES 300 DIGISWITCH

to meet Military Specifications MIL-S-22710.

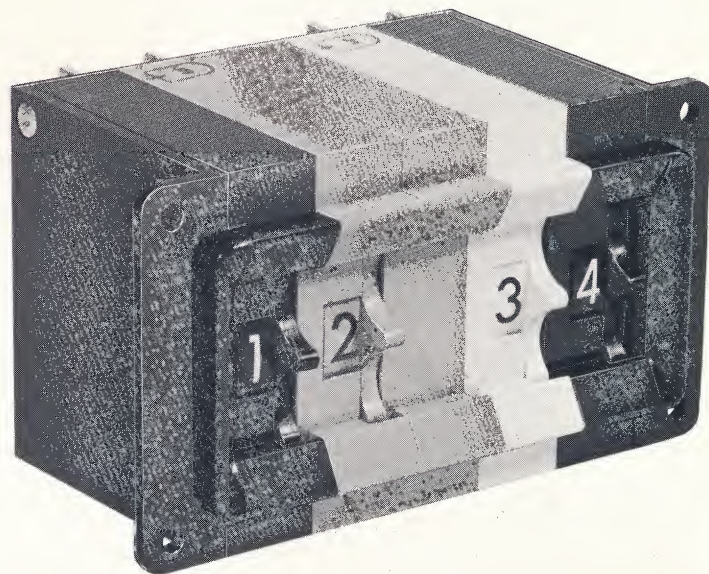


SERIES 300B MODULE

The Series 300 DIGISWITCH is available in either front- or back-mounted configurations. All modules are only one-half inch wide. More than 60 standard types of the Series 300 DIGISWITCH are available, covering the following range of capabilities:

- Octal-to-binary conversion
- Decimal-to-binary conversion
- Conversion to binary or octal with complement and provision for diodes
- Voltage divider
- Capacitance decade
- Resistance decade
- 2, 8, 10 or 12 position "decimal" switches (available in both single-and double-pole; shorting and non-shorting)

Positive visual identification of groups of switches, or switch functions, is facilitated by using spacer decades, color coding or special dial characters. Switches as well as spacer decades are available in three colors: black, white and gray. Dial stops may be inserted to limit the setting positions available to the operator. Special dial characters ($\pm$, N-S, etc) can also be provided.



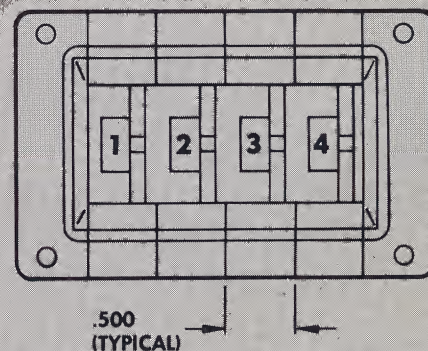
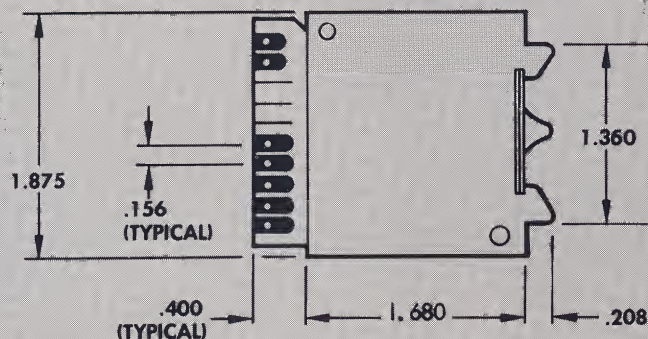
SERIES 300B ASSEMBLY SHOWING COLORS



The assembly pictured at left illustrates many of the unique design characteristics of DIGISWITCH. The assembly consists of six switches, two spacers and the 300 Series Message Unit Switch. The electrical output of all switches is Binary Coded Decimal plus Complement. The Message Unit Switch has four separate messages or functions on the dial. The use of this switch in the assembly eliminates four different switch lights, which saves panel space, and adds to the visual clarity of the information to be entered. Dial stops are used in some of the switches to limit the number of positions available to the operator. Symbols denoting degrees, minutes and decimal point are engraved directly on the switch and/or spacer-case. No separate escutcheon plate or cover is necessary.

NOTE: There is no visual interruption between Function and Data Entry Switches or related symbols. The entire unitized switch assembly is read as a single display.

OUTLINE AND MOUNTING DIMENSIONS SERIES 300

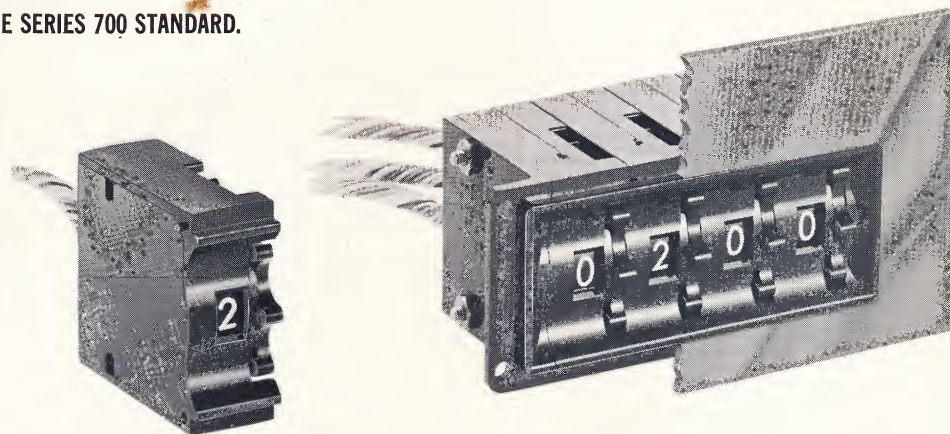


MINISWITCH* SERIES 200 AND 700

AVAILABLE IN TWO SERIES, — SERIES 200 SEALED AND THE SERIES 700 STANDARD.

Miniswitch is the smallest thumbwheel switch available. Though small, MINISWITCH retains all of the unique features and advantages of DIGISWITCH such as — easy yet positive operation, in-line visual read-out, modular construction, extensive coded electrical output capabilities and reliable performance. In addition the Series 200 MINISWITCH is sealed for operation in severe environments. Only wire leads extend from the case of the Series 200. All switching elements, including the printed circuit board, are sealed within a separate chamber in each switch module.

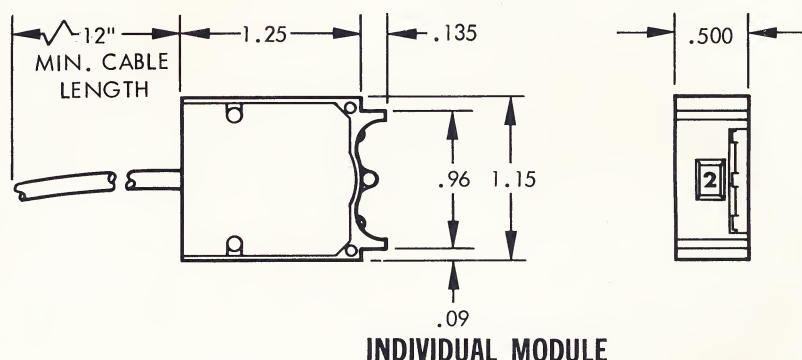
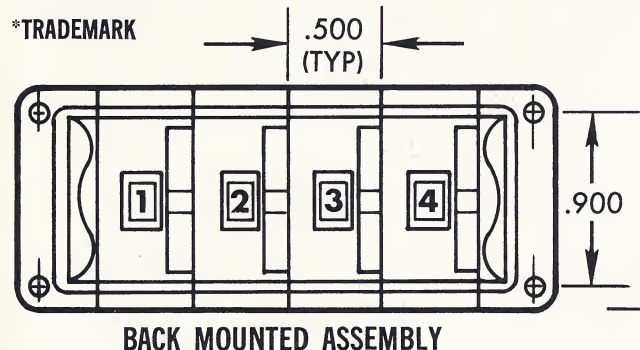
The Series 700 is unsealed with the printed circuit board extending behind the case for easy direct soldering and in some models for the mounting of components directly on the printed circuit board. The size and appearance of both series are identical. (See outline dimensions below.)



Typical Series 200 Module shown actual size.

Series 200 Assembly shown above.

OUTLINE AND MOUNTING DIMENSIONS SERIES 200



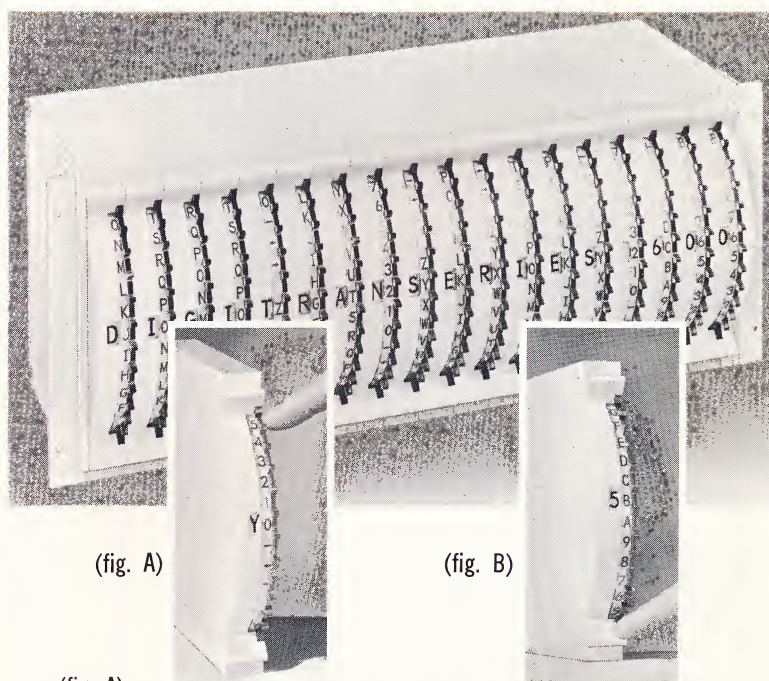
THE SERIES 600 DIGISWITCH

The Series 600 DIGISWITCH is unique among thumbwheel-type switches in that it offers the operator the selection speed of a pushbutton, or slide-bar switch, while it retains the in-line visual readout feature of the thumbwheel type. All of the design characteristics of the DIGISWITCH line (modular construction, easy mounting, simple yet positive operation and savings in front panel space) are also retained. The setting wheel has up to 40 positions, yet all are readily available to the operator in no more than 4 wheel actuations.

The setting wheel consists of two parts. The right-hand side contains the operator selection positions, and the left-hand side contains the in-line readout window positions. See figures A and B for illustration.

The Series 600 DIGISWITCH offers extensive electrical output capabilities. For example, up to 6 bits of binary, 10 levels of output, information can easily be obtained. As a straight decimal switch, a 40-position setting wheel (0 through 9 repeated 4 times) affords a possible 10-position, 8-pole or 8-deck output with all numbers, 0 through 9, available for selection regardless of the position setting. To enter any of the numbers 0 through 9, only one actuation of the wheel is necessary.

Provision for the installation of diodes, resistors or other components directly on the circuit board can easily be provided. Circuit board terminals allow the use of both standard-edge connectors or solder.



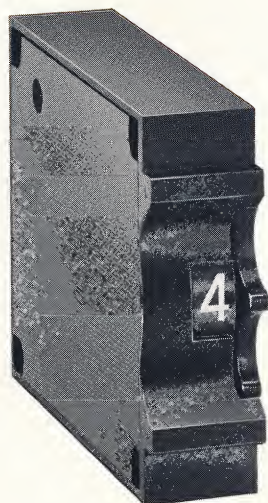
(fig. A)

(fig. B)

(fig. A)
Operator selects the number, letter or character he desires to enter on the right-hand side of the setting wheel.

(fig. B)
Operator presses setting wheel to extreme bottom — selection appears in the in-line readout window and indicates the actual position of the switch.

SERIES 400 ENVIRONMENTAL DIGISWITCH



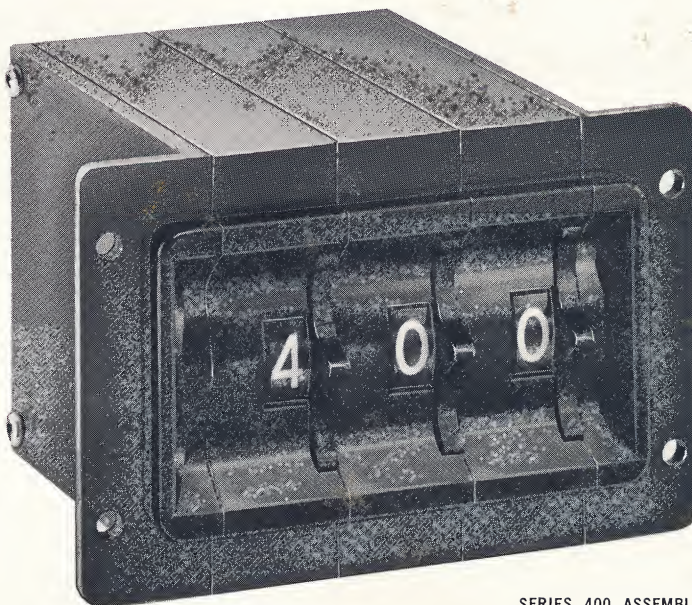
SERIES 400 MODULE

The Series 400 DIGISWITCH is specifically designed for systems operating in severe environments. It has been tested and meets the appropriate provisions of MIL-E-5272C. The Series 400 DIGISWITCH covers a wide range of capabilities, including the following:

- Octal-to-binary conversion, with parity or complement
- Decimal-to-binary conversion, with parity or complement
- 10-position "decimal" selection

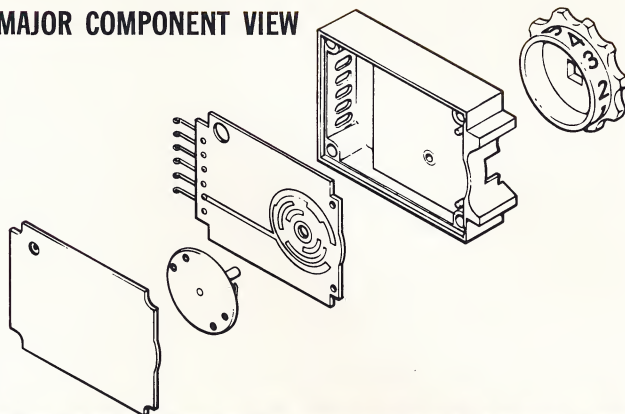
The Series 400 Environmental DIGISWITCH is 0.6 inch wide and any combination of modules can be ganged together to form one assembly. Modules are available with blade connectors, solder terminals or cable leads.

The simple, reliable design of the Series 400 DIGISWITCH is unique in that the switching elements (printed circuit board, contacts, etc.) are enclosed in a sealed chamber within the switch module. The environmental requirements of military and industrial systems for field, airborne, or shipboard use can be ideally met by this DIGISWITCH series. In applications where explosive atmosphere, sand, dust, high humidity, salt spray, temperature extremes, vibration and shock are present, the Series 400 DIGISWITCH assures efficient, long lasting and reliable performance.

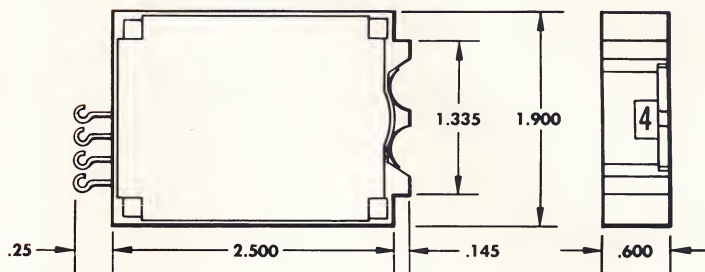


SERIES 400 ASSEMBLY

MAJOR COMPONENT VIEW



OUTLINE DIMENSIONS SERIES 400



SERIES 400 SPECIFICATIONS

Explosion-Proof	MIL-E-5272C, Procedure III
High Temperature	MIL-E-5272C, Procedure II
Low Temperature	MIL-E-5272C, Procedure I
Shock	MIL-E-5272C, Procedure V
Vibration	MIL-E-5272C, Procedure XIII
Sand and Dust	MIL-E-5272C, Procedure I
Salt Spray	MIL-E-5272C, Procedure I
Humidity	MIL-E-5272C, Procedure III

The Series 400 can also be made to meet the specification for Electromagnetic Interference (R.F.I.) per MIL-I-6181D.

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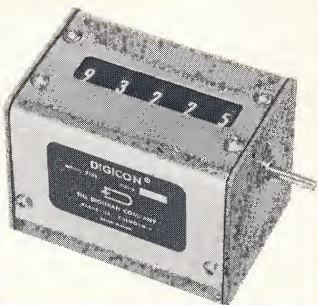
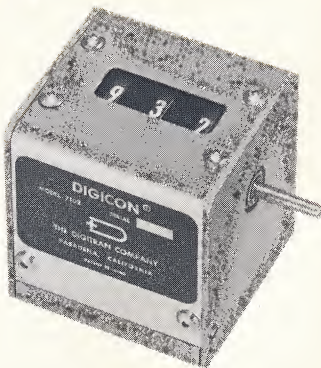
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2445 Duncan Street
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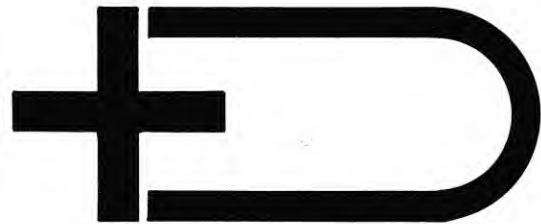
BRIAN ENGINEERING, LIMITED
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Toronto 19, Ontario, Canada
Phone: 416/787-5441

DIGICON

DIGICON is an analog-to-digital converter which converts multi-turn shaft angle information to simultaneous **visual** and **electrical** read-outs. The electrical read-out consists of a **discrete electrical circuit** for each digit of each counting wheel.

Typical applications include remote count indication, remote position indication, and actuation of solenoid-operated printers, card punches and tabulators as well as the sensing and control element in servo systems and automated systems.





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THE DIGITRAN COMPANY

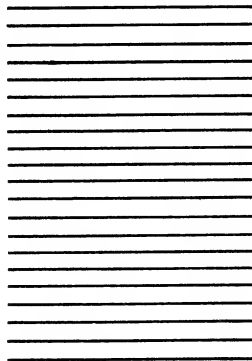
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FIRST CLASS

PERMIT NUMBER 2342

PASADENA, CALIF.



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SEND LITERATURE TO:

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Poughkeepsie, New York 12603
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Consultant

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